

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX101718\  
 Data File : VX005403.D  
 Acq On : 17 Oct 2018 21:34  
 Operator : JC/MD  
 Sample : J5569-05  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RLF-GW-FD-01

Quant Time: Oct 19 09:56:45 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X101218W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Oct 12 11:28:43 2018  
 Response via : Initial Calibration

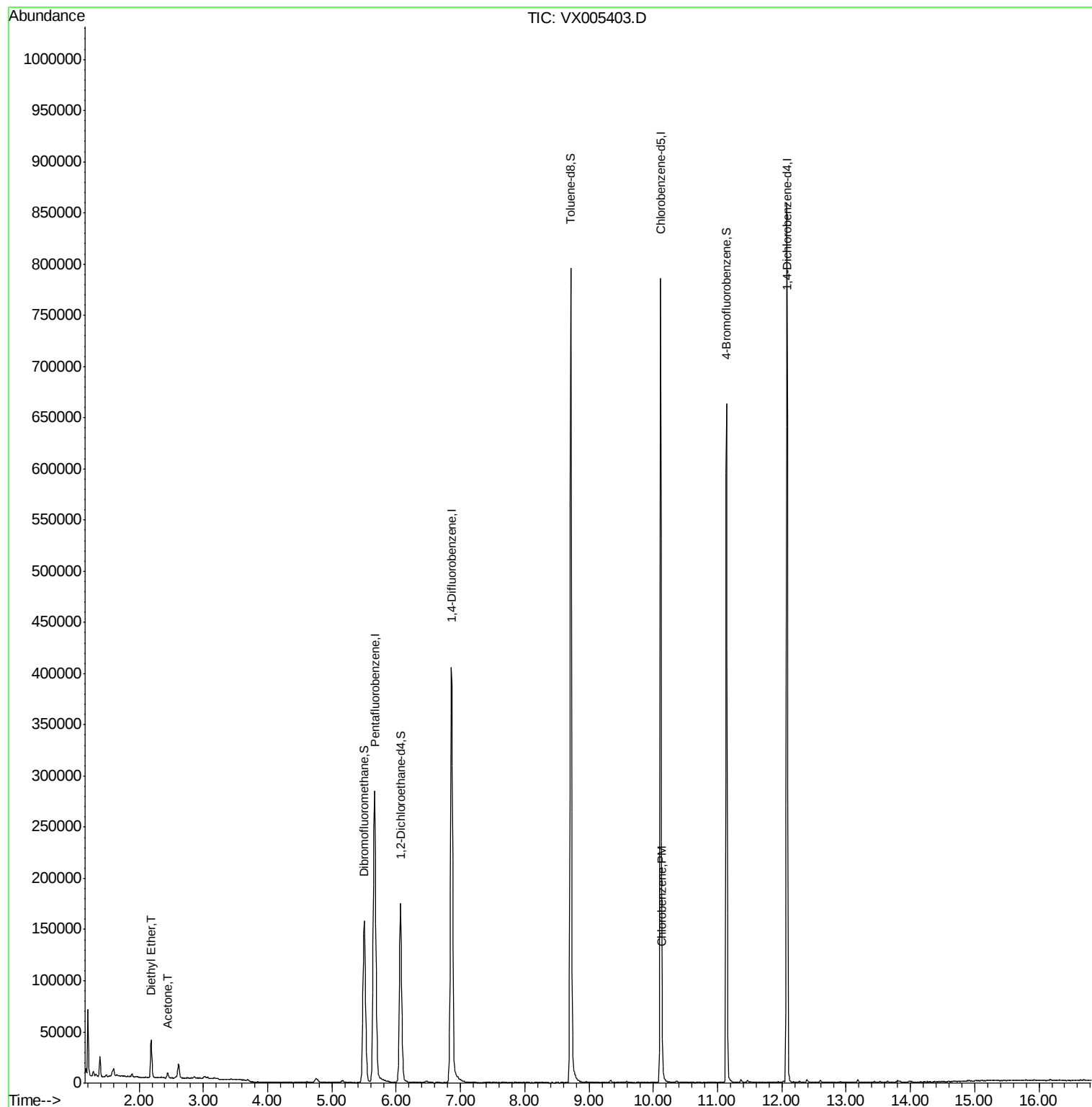
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 1) Pentafluorobenzene       | 5.67  | 168  | 301263   | 50.00 | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 6.86  | 114  | 434575   | 50.00 | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 10.12 | 117  | 381716   | 50.00 | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 12.08 | 152  | 183439   | 50.00 | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |       |         |          |
| 33) 1,2-Dichloroethane-d4   | 6.07  | 65   | 165008   | 49.35 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 98.70%  |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 134823   | 46.84 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 93.68%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 510953   | 51.71 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 103.42% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 168121   | 45.29 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 90.58%  |          |
| Target Compounds            |       |      |          |       |         |          |
| 8) Diethyl Ether            | 2.19  | 74   | 11977    | 6.08  | ug/l    | 90       |
| 16) Acetone                 | 2.45  | 43   | 4716     | 2.44  | ug/l    | 94       |
| 65) Chlorobenzene           | 10.14 | 112  | 7445     | 0.92  | ug/l    | 96       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
MSVOA\_X  
ClientSampled :  
RLF-GW-FD-01

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QLast Update : Fri Oct 12 11:28:43 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX005403.D

Acq: 17 Oct 2018 21:34

Instrument :

MSVOA\_X

ClientSampleId :

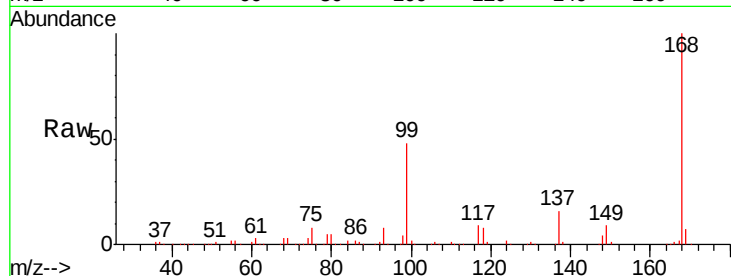
RLF-GW-FD-01

Tgt Ion: 168 Resp: 301263

Ion Ratio Lower Upper

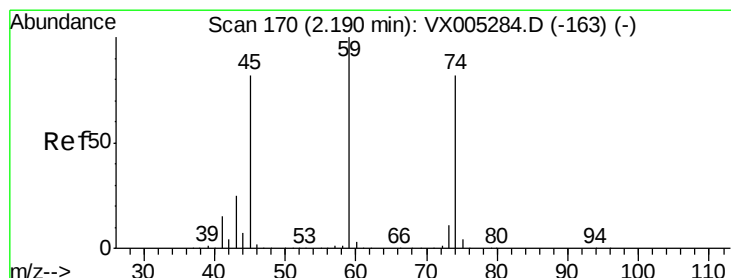
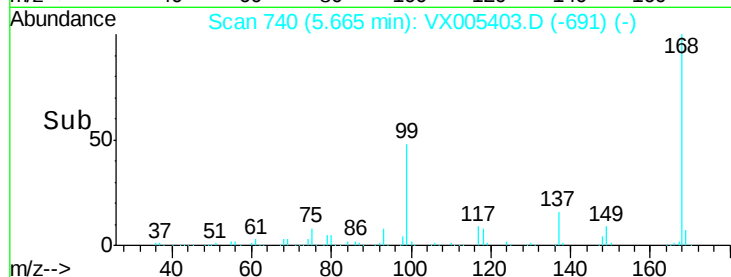
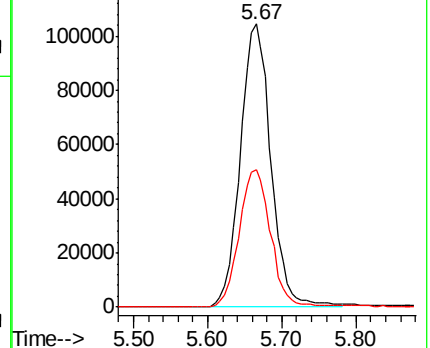
168 100

99 48.5 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#8

Diethyl Ether

Concen: 6.08 ug/l

RT: 2.19 min Scan# 170

Delta R.T. -0.00 min

Lab File: VX005403.D

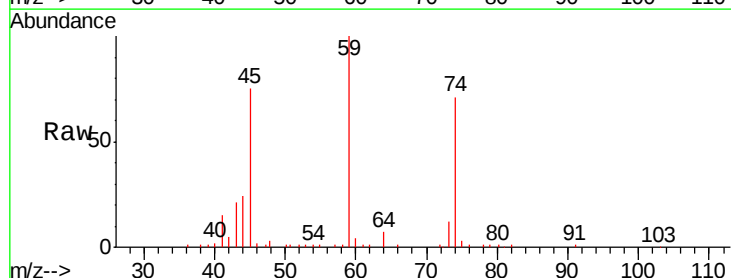
Acq: 17 Oct 2018 21:34

Tgt Ion: 74 Resp: 11977

Ion Ratio Lower Upper

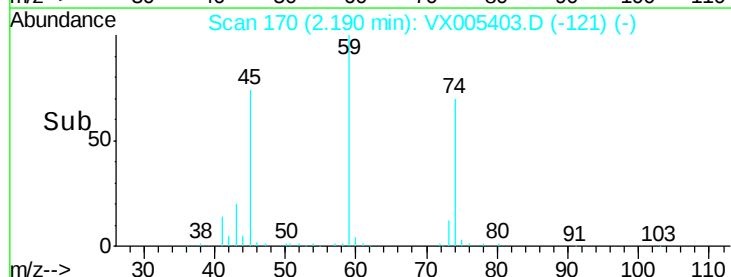
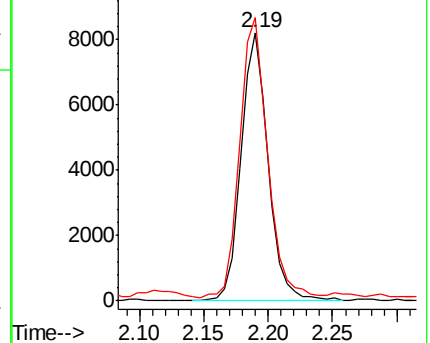
74 100

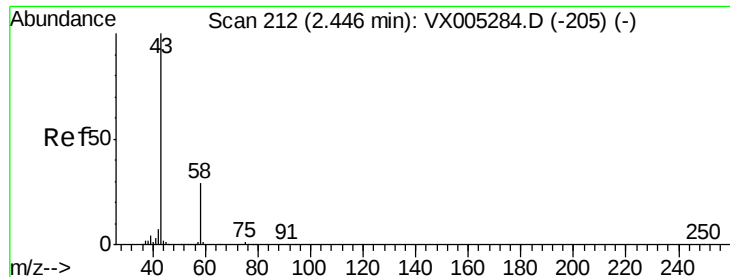
45 106.8 48.3 144.8



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0





#16

Acetone

Concen: 2.44 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005403.D

Acq: 17 Oct 2018 21:34

Instrument :

MSVOA\_X

ClientSampleId :

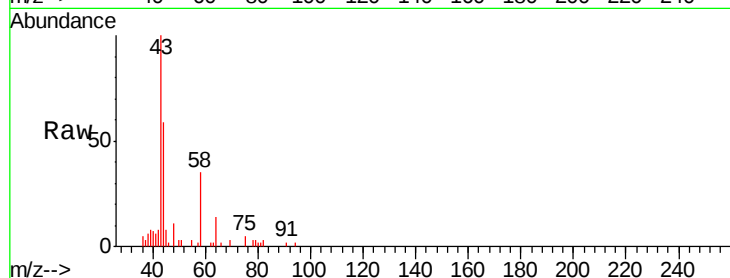
RLF-GW-FD-01

Tgt Ion: 43 Resp: 4716

Ion Ratio Lower Upper

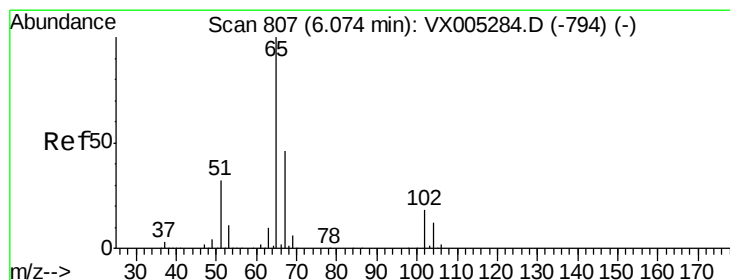
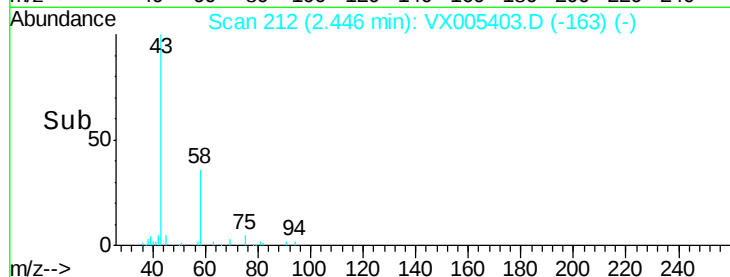
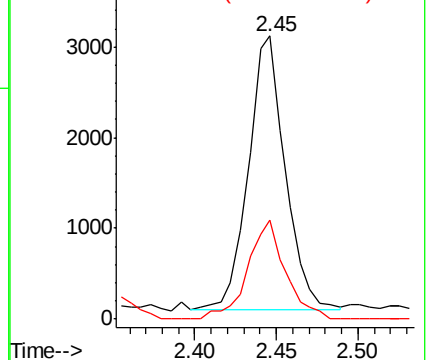
43 100

58 36.1 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 49.35 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.01 min

Lab File: VX005403.D

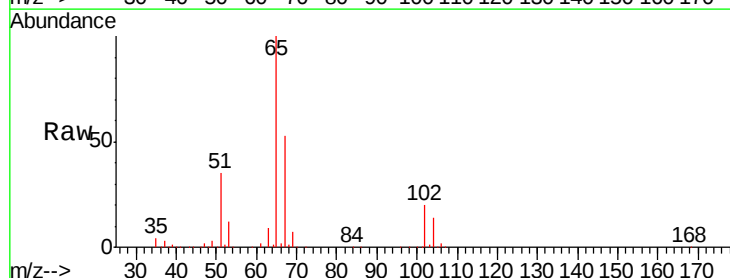
Acq: 17 Oct 2018 21:34

Tgt Ion: 65 Resp: 165008

Ion Ratio Lower Upper

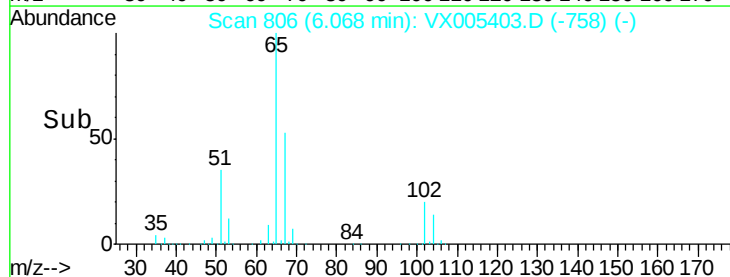
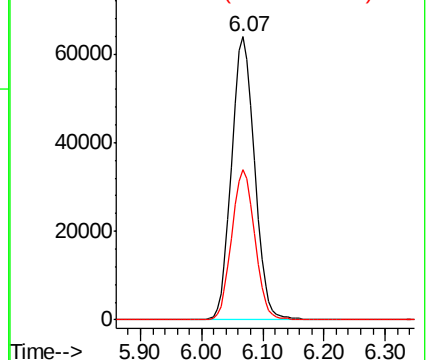
65 100

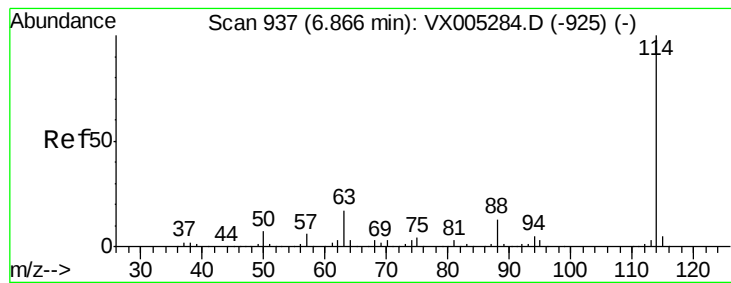
67 53.1 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.01 min

Lab File: VX005403.D

Acq: 17 Oct 2018 21:34

Instrument :

MSVOA\_X

ClientSampleId :

RLF-GW-FD-01

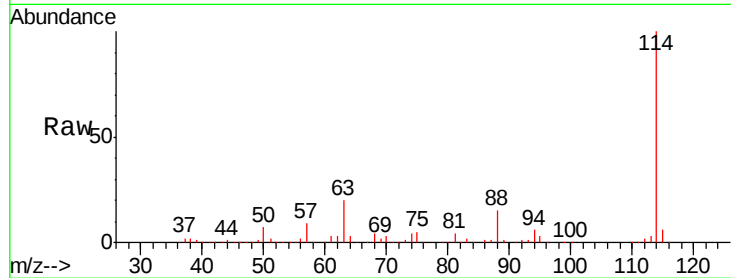
Tgt Ion:114 Resp: 434575

Ion Ratio Lower Upper

114 100

63 19.9 0.0 39.0

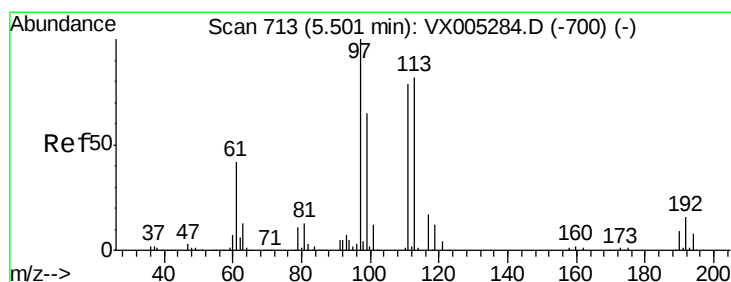
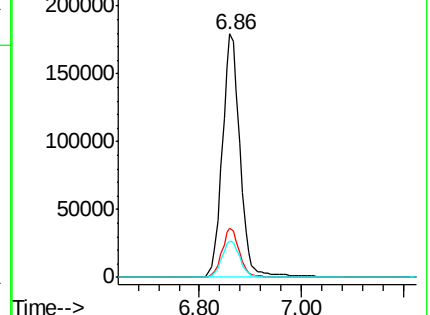
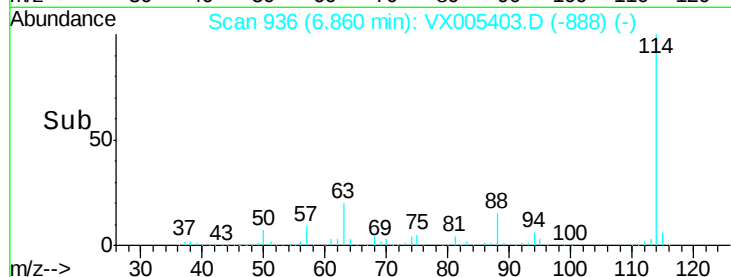
88 15.1 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 46.84 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX005403.D

Acq: 17 Oct 2018 21:34

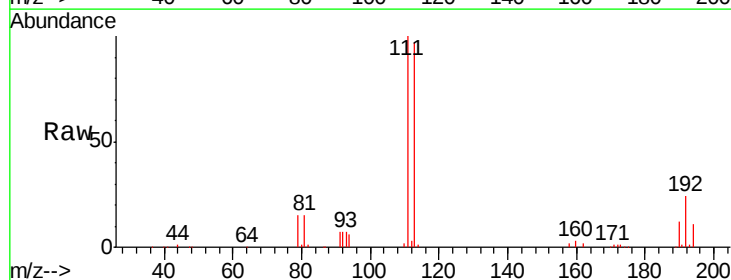
Tgt Ion:113 Resp: 134823

Ion Ratio Lower Upper

113 100

111 102.4 82.4 123.6

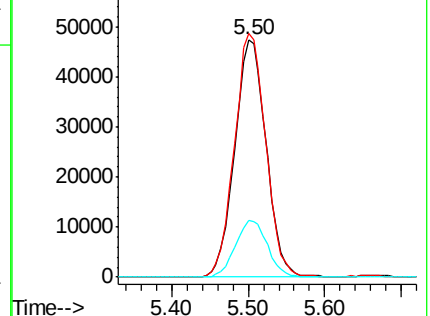
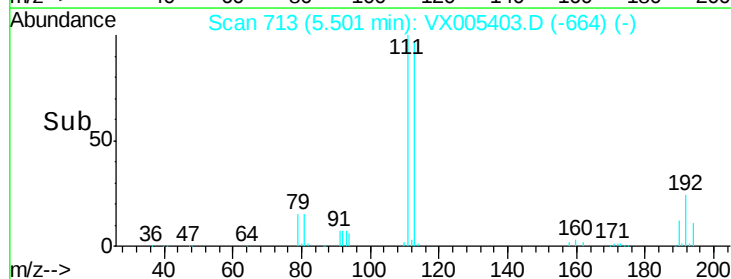
192 24.5 19.4 29.2

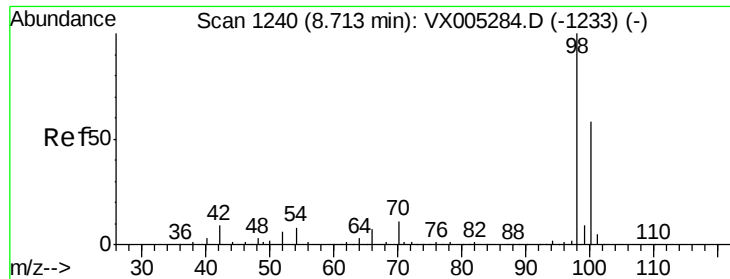


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#50

Toluene-d8

Concen: 51.71 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX005403.D

Acq: 17 Oct 2018 21:34

Instrument :

MSVOA\_X

ClientSampleId :

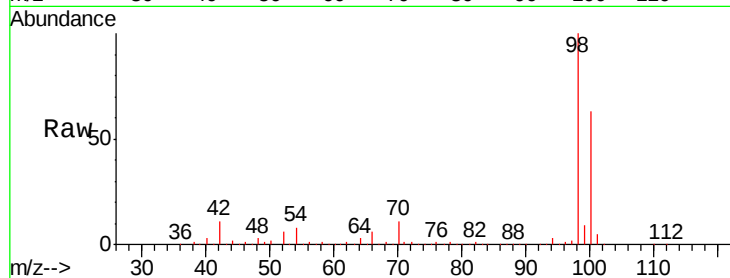
RLF-GW-FD-01

Tgt Ion: 98 Resp: 510953

Ion Ratio Lower Upper

98 100

100 63.4 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.71

300000

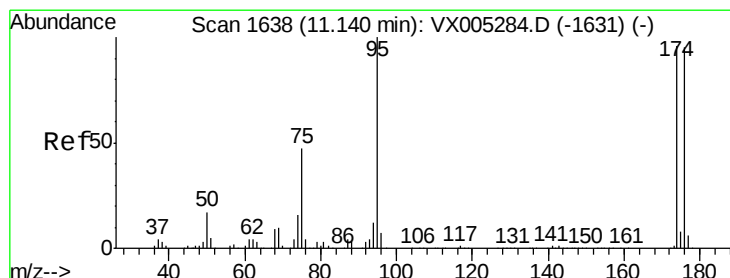
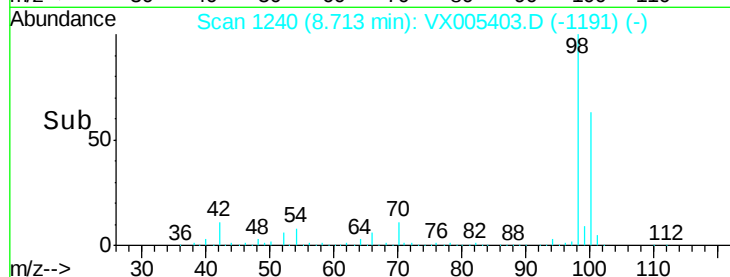
200000

100000

0

8.60 8.70 8.80 8.90

Time-->



#62

4-Bromofluorobenzene

Concen: 45.29 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005403.D

Acq: 17 Oct 2018 21:34

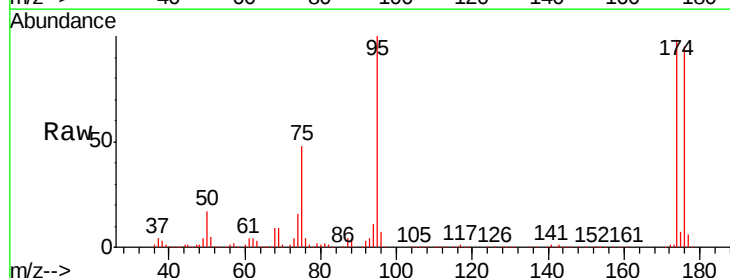
Tgt Ion: 95 Resp: 168121

Ion Ratio Lower Upper

95 100

174 95.2 0.0 185.2

176 91.9 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

11.14

150000

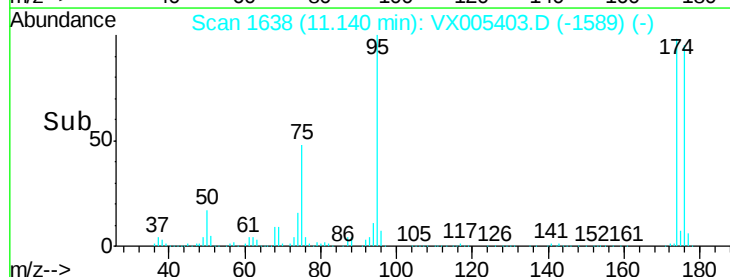
100000

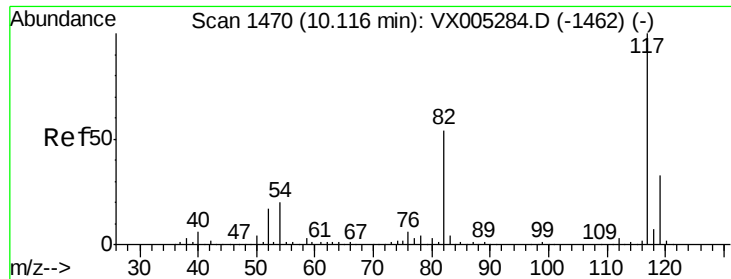
50000

0

11.10 11.20

Time-->

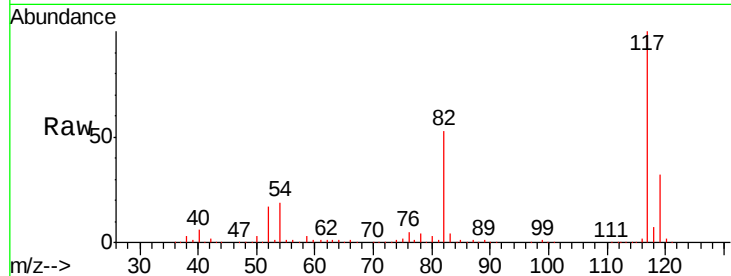




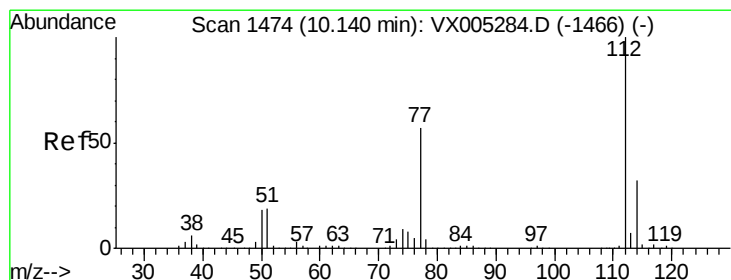
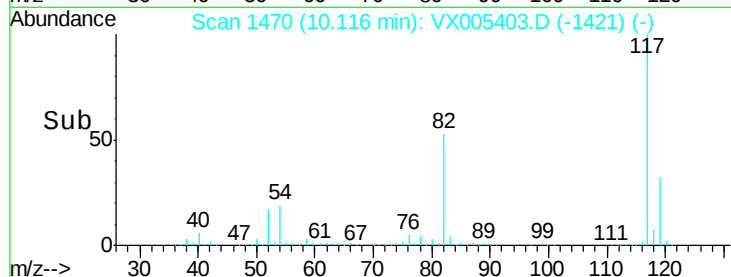
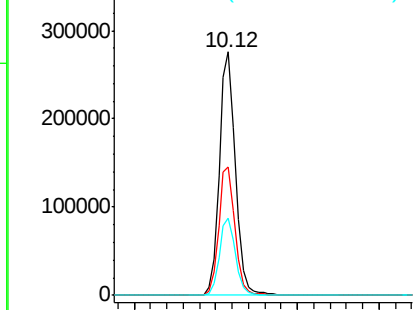
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.12 min Scan# 1470  
Delta R.T. -0.00 min  
Lab File: VX005403.D  
Acq: 17 Oct 2018 21:34

Instrument :  
MSVOA\_X  
ClientSampleId :  
RLF-GW-FD-01

Tgt Ion:117 Resp: 381716  
Ion Ratio Lower Upper  
117 100  
82 52.8 47.8 71.6  
119 31.9 29.3 43.9

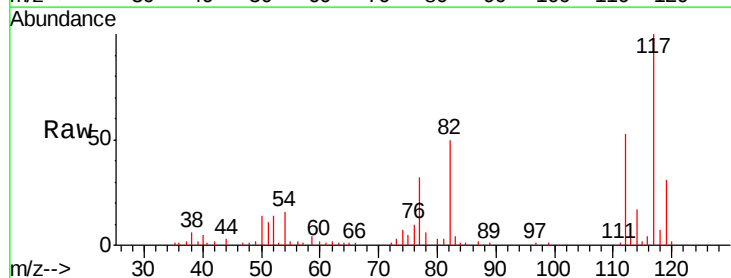


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

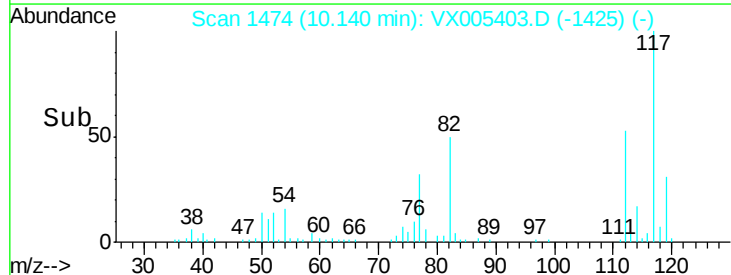
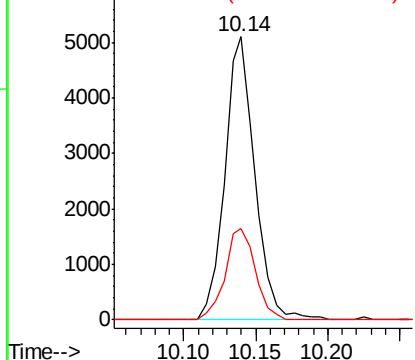


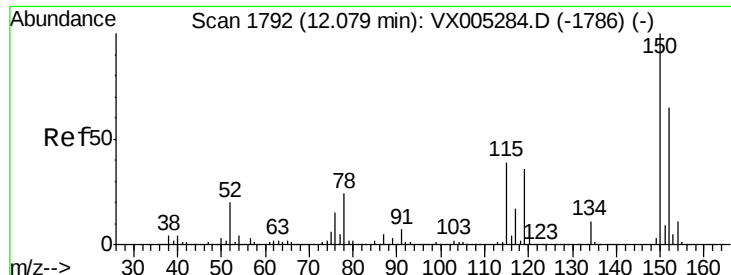
#65  
Chlorobenzene  
Concen: 0.92 ug/l  
RT: 10.14 min Scan# 1474  
Delta R.T. -0.00 min  
Lab File: VX005403.D  
Acq: 17 Oct 2018 21:34

Tgt Ion:112 Resp: 7445  
Ion Ratio Lower Upper  
112 100  
114 32.4 27.8 41.8



Abundance Ion 111.90 (111.60 to 112.60): V  
Ion 113.90 (113.60 to 114.60): V





#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.00 ug/l  
 RT: 12.08 min Scan# 1792  
 Delta R.T. -0.00 min  
 Lab File: VX005403.D  
 Acq: 17 Oct 2018 21:34

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RLF-GW-FD-01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 54.7  | 39.0  | 117.0 |
| 150     | 156.9 | 0.0   | 351.0 |

